

8150/5-V37-302-50-0010 Art. No. 214171



- Can be used with conventional drives or with variable-frequency drives
- Intelligent design: A single rotary actuator for actuating the main and auxiliary contacts,  $\geq 20$  ms leading auxiliary contact for safe disconnection
- Designed in accordance with IEC/EN 62626-1, class 1
- The rotary actuator can be locked in the 0-position with three padlocks

### MY R. STAHL 8150F



R. STAHL Series 8150/5-V37 safety switches safely disconnect machines and system parts from the energy supply for cleaning and repair as prescribed. All of the installed load disconnect switches have AC-3 switching capacity. The switches can be locked in the 0-position using padlocks.

## Technical Data

### Explosion Protection

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Area of application             | European Union (ATEX)<br>IECEx                       |
| Application range (zones)       | 1, 2, 21, 22                                         |
| IECEx gas certificate           | IECEx PTB 09.0049                                    |
| IECEx gas explosion protection  | Ex db eb IIC T6 Gb                                   |
| IECEx dust certificate          | IECEx PTB 09.0049                                    |
| IECEx dust explosion protection | Ex tb IIIC T80 °C Db                                 |
| ATEX gas certificate            | PTB 09 ATEX 1109                                     |
| ATEX gas explosion protection   | II 2 G Ex db eb IIC T6 Gb                            |
| ATEX dust certificate           | PTB 09 ATEX 1109                                     |
| ATEX dust explosion protection  | II 2 D Ex tb IIIC T80 °C Db                          |
| Certificates                    | ATEX (PTB), China (NEPSI), IECEx (PTB), India (PESO) |
| Declaration of conformity       | ATEX (EUK), China (CCC)                              |

### Electrical Data

|                               |              |
|-------------------------------|--------------|
| Rated operational voltage AC  | 690 V        |
| Rated operational current     | 16 A (T6)    |
| Rated operational current     | 16 A         |
| Switching capacity AC-3 230 V | 4 kW         |
| Switching capacity AC-3 400 V | 7.5 kW       |
| Switching capacity AC-3 440 V | 7.5 kW       |
| Switching capacity AC-3 500 V | 7.5 kW       |
| Switching capacity AC-3 690 V | 11 kW        |
| Auxiliary contact NC          | without      |
| Auxiliary contact NO          | 1 NO/delayed |
| Frequency range               | 50 – 60 Hz   |

### Ambient Conditions

|                     |                    |
|---------------------|--------------------|
| Ambient temperature | -40 °C ... +50 °C  |
| Ambient temperature | -40 °F ... +122 °F |

# Load disconnect switches and motor starters

## Safety switch

**STAHL**

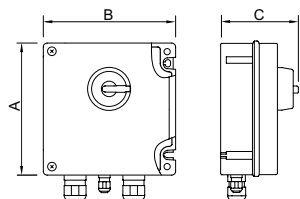
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**Mechanical Data**

|                                                |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| Degree of protection (IP)                      | IP66                                                |
| Degree of protection note                      | according to EN/IEC 60529                           |
| Enclosure material                             | Stainless steel 1.4404, (AISI 316L), brush finished |
| Min. solid conn. cr.-sect. AWG                 | AWG 14                                              |
| Min. f.stra. con. cr.-sec. AWG                 | AWG 14                                              |
| Connection terminal auxiliary contact min. AWG | AWG 16                                              |
| Construction type                              | Standard                                            |
| Dimension A                                    | 176.5 mm                                            |
| Dimension B                                    | 176.5 mm                                            |
| Dimension C                                    | 132 mm                                              |
| Dimension A                                    | 176.5 mm                                            |
| Dimension A inch                               | 6.95 in                                             |
| Dimension B                                    | 176.5 mm                                            |
| Dimension B inch                               | 6.95 in                                             |
| Dimension C                                    | 132 mm                                              |
| Dimension C inch                               | 5.2 in                                              |
| Handle colour                                  | Black shroud and handle                             |
| Seal                                           | Silicone, foamed                                    |
| Lockable in                                    | Three times in 0 position                           |
| Detailed number of poles                       | 3-pole                                              |
| Weight                                         | 3.25 kg                                             |
| Weight                                         | 7.17 lb                                             |

**Components**

|             |                                                |
|-------------|------------------------------------------------|
| Entry type  | Standard 8161, moulded material                |
| Cable gland | 2 x M25 Ø 7 ... 17 mm<br>1 x M20 Ø 4 ... 13 mm |

**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**

| Ver-<br>sion | Rated operational<br>current | Product Type                 | Dimension A<br>[mm] | Dimension B<br>[mm] | Dimension C<br>[mm] |
|--------------|------------------------------|------------------------------|---------------------|---------------------|---------------------|
| 3-pole       | 16 A                         | 8150/5-V37-302-50-....       | 176.5               | 176.5               | 132                 |
|              | 25 A                         | 8150/5-V37-304-50-....       | 176.5               | 176.5               | 132                 |
|              | 40 A                         | 8150/5-V37-305-51-<br>....-K | 360                 | 176.5               | 194                 |
|              | 63 A                         | 8150/5-V37-306-51-<br>....-K | 360                 | 360                 | 196                 |
|              | 125 A                        | 8150/5-V37-308-51-<br>....-K | 727                 | 360                 | 203                 |

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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.